

STATEMENT OF BASIS (AI No. 124995)

for draft Louisiana Pollutant Discharge Elimination System permit No. LA0123404 to discharge to waters of the State of Louisiana.

THE APPLICANT IS: K-TEK, LLC
18321 Swamp Rd
Prairieville, LA 70769

ISSUING OFFICE: Louisiana Department of Environmental Quality (LDEQ)
Office of Environmental Services
Post Office Box 4313
Baton Rouge, Louisiana 70821-4313

PREPARED BY: Molly McKean

DATE PREPARED: November 16, 2007

1. PERMIT STATUS**A. Reason For Permit Action:**

First time issuance of a Louisiana Pollutant Discharge Elimination System (LPDES) permit for a 5-year term.

B. NPDES permit - NPDES permit effective date: N/A
NPDES permit expiration date: N/A
EPA has not retained enforcement authority.

C. LPDES permits –
LPDES permit effective date: N/A
LPDES permit expiration date: N/A

D. Date Application Received: November 13, 2007

2. FACILITY INFORMATION**A. FACILITY TYPE/ACTIVITY - level gauge manufacturing facility**

This facility manufactures level gauges used by industry to measure the level of liquid in fixed storage or process tanks. The facility discharges the following wastewater types through Outfall 001:

1. Water jet abrasive used for water based cutting machines. The abrasive is garnet and this water is filtered through a 100 micron screen filter prior to discharge to the STP.
2. Hydrostatic water pressure test system. Water used to test the pressure limit of the level gauges.
3. Wastewater from ultrasonic cleaners. Cleaners use distilled water and Liquid NOX detergent.
4. Sanitary wastewater from the machine shop.

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The facility also discharges industrial stormwater by pipe. This discharge is stormwater only and shall be covered by the SWPPP requirement. Scrap metal is removed by Southern Scrap Recycling, solid waste is removed by Ace Waste, and Liquid industrial waste (lubricants) are removed by Safety-Kleen Systems.

B. FEE RATE

1. Fee Rating Facility Type: minor
2. Complexity Type: II – BPJ points to zero. This permit is issued in place of the LAG480000.
3. Wastewater Type: II
4. SIC code: 3823 - Industrial instruments for measurement, display, and control of process variables

C. LOCATION - 18321 Swamp Road, Prairieville, Ascension Parish
Latitude 30 19' 34", Longitude 90 59' 52"

3. OUTFALL INFORMATION

Outfall 001

Discharge Type: water jet abrasive wastewater, hydrostatic water pressure test system
wastewater, sanitary wastewater from the machine shop

Treatment: extended aeration STP

Location: at the point of discharge from the STP prior to mixing with any other
waters

Flow: 1650 GPD

Discharge Route: by pipe to Welsh Gully, thence into Bayou Manchac, thence into the
Amite River

4. RECEIVING WATERS

STREAM - by pipe to Welsh Gully, thence into Bayou Manchac, thence into the Amite
River

BASIN AND SEGMENT - Lake Pontchartrain Basin, Segment 040201

DESIGNATED USES - a. primary contact recreation
b. secondary contact recreation
c. propagation of fish and wildlife

5. TMDL STATUS

Subsegment 040201, Bayou Manchac - from Headwaters to Amite River, is listed on LDEQ's Final 2004 303(d) List as impaired for Ammonia (total), Phosphorus, Nitrogen (nitrate + nitrite as N), Organic Enrichment/Low DO, Pathogen Indicators, Chlorides, Sulfates, and TDS. To date no TMDLs have been completed for this waterbody. A reopener clause will be established in the permit to allow for the requirement of more stringent effluent limitations and requirements as imposed by a TMDL. Until completion of TMDLs for the Lake Pontchartrain Basin, those suspected causes for impairment which are not directly attributed to the level

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gauge manufacturing point source category have been eliminated in the formulation of effluent limitations and other requirements of this permit. Additionally, suspected causes of impairment which could be attributed to pollutants which were not determined to be discharged at a level which would cause, have the reasonable potential to cause or contribute to an excursion above any present state water quality standard were also eliminated.

Outfall 001 has the potential to discharge pollutants associated with the phosphorus, organic enrichment/low DO, pathogen indicators, nitrogen, ammonia, chlorides, TDS, and sulfates impairments. LDEQ's position on nutrients, as supported by the ruling in *Sierra Club v. Givens*, 710 So.2d 249 (La. App. 1st Cir. 1997), writ denied, 705 So.2d 1106 (La. 1998), is that when oxygen-demanding substances are controlled and limited in order to ensure that the dissolved oxygen criterion is supported, nutrients are also controlled and limited. LAC 33:IX.2707.D.1.f.iii allows the establishment of effluent limitations based on an indicator parameter for the pollutant of concern. LDEQ's consistent approach to controlling nutrients, where the WQMP does not otherwise require specific nutrient limitations, is achieved by limiting the discharge of oxygen-demanding substances through a BOD₅ limitation. Compliance with the BOD₅ limitation as the indicator parameter will result in the control of nutrients from the discharge sufficient to attain and maintain the applicable water quality standard. Additionally, the volume of the sanitary discharge is small and should not have a significant impact on the receiving stream. Discharges in compliance with the standard sanitary limits applied in this permit should not cause or further contribute to the phosphorus, nitrogen, organic enrichment/low DO, pathogen indicators, or ammonia impairments. Chlorides, sulfates, and TDS impairments have been attributed to land clearance (land development/redevelopment). Limitations for these parameters shall not be included at this time.

A TMDL study is scheduled to be completed by March 31, 2011 by the state, or no later than March 31, 2012 by the EPA.

6. PROPOSED EFFLUENT LIMITS

BASIS - See Rationale below.

7. COMPLIANCE HISTORY/COMMENTS

- A. WQMD – There are no water inspections on file as of November 16, 2007.
- B. DMR Review/Excursions – NA

8. ENDANGERED SPECIES

The receiving waterbody, Subsegment 040201 of the Lake Pontchartrain Basin is not listed in Section II.2 of the Implementation Strategy as requiring consultation with the U.S. Fish and Wildlife Service (FWS). This strategy was submitted with a letter dated October 24, 2007 from Boggs (FWS) to Brown (LDEQ). Therefore, in accordance with the Memorandum of Understanding between the LDEQ and the FWS, no further informal (Section 7, Endangered

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Species Act) consultation is required. The effluent limitations established in the permit ensure protection of aquatic life and maintenance of the receiving water as aquatic habitat. Therefore, the issuance of the LPDES permit is not likely to have an adverse effect on any endangered or candidate species or the critical habitat.

9. HISTORIC SITES

The discharge is from an existing facility location, which does not include an expansion on undisturbed soils. Therefore, there should be no potential effect to sites or properties on or eligible for listing on the National Register of Historic Places, and in accordance with the "Memorandum of Understanding for the Protection of Historic Properties in Louisiana Regarding LPDES Permits" no consultation with the Louisiana State Historic Preservation Officer is required.

11. TENTATIVE DETERMINATION

On the basis of preliminary staff review, the Department of Environmental Quality has made a tentative determination to issue a permit for the discharge described in the application.

12. PUBLIC NOTICES

Upon publication of the public notice, a public comment period shall begin on the date of publication and last for at least 30 days thereafter. During this period, any interested persons may submit written comments on the draft permit and may request a public hearing to clarify issues involved in the permit decision at this Office's address on the first page of the statement of basis. A request for a public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing.

Public notice published in:

Local newspaper of general circulation

Office of Environmental Services Public Notice Mailing List

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Rationale for K-TEK, LLC

- Outfall 001** - water jet abrasive wastewater, hydrostatic water pressure test system wastewater, sanitary wastewater from the machine shop (estimated flow is 1650 GPD)

<u>Pollutant</u>	<u>Limitation</u> Mo. Avg:Daily Max (mg/l)	<u>Reference</u>
Flow	--- : Report	LAG480000, BPJ
BOD ₅	--- : 45	LAG480000, BPJ
TSS	--- : 45	LAG480000, BPJ
Oil & Grease	--- : 15	LAG480000, BPJ
Fecal Coliform (colonies/100 ml)	--- : 400	LAG48000, BPJ
pH	6.0 su – 9.0 su (min) (max)	LAG480000, BPJ

Treatment: extended aeration STP

Monitoring Frequency: quarterly – BPJ based on similar permitted facilities

Limits Justification:

Metals analysis submitted with the application reported below the MQLs for all parameters. EPA Guidelines for Metal Products and Machinery (40 CFR Part 438) are applicable; however, more stringent state requirements are being placed in the permit. These limits are based on the Light Commercial General Permit (LAG480000) and BPJ.

BPJ Best Professional Judgement
su Standard Units

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STORM WATER POLLUTION PREVENTION PLAN (SWP3) REQUIREMENT

A SWP3 is included in the permit because in accordance with LAC 33:IX.2511.A.1, storm water discharges shall not be required to obtain an LPDES permit "... except... discharges associated with industrial activity." In accordance with LAC 33:IX.2511.B.14.a-k, facilities classified as SIC code 3823 - Industrial instruments for measurement, display, and control of process variables are considered to have storm water discharges associated with industrial activity.

The SWP3 shall be prepared, implemented, and maintained within (6) months of the effective date of the final permit. The plan should identify potential sources of storm water pollution and ensure the implementation of practices to prevent and reduce pollutants in the storm water discharges associated with industrial activity at the facility (see Narrative Requirements for the AI).